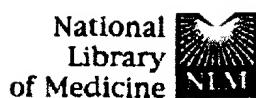


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1	2	HAI ADJ YING NEAR zhu	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:32
2	16	Grapevine ADJ leafroll ADJ virus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:33
5	10567	Agrobacterium	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:45
6	9	(Grapevine ADJ leafroll ADJ virus) and Agrobacterium	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:40
7	6945	Agrobacterium NEAR (vitis or tumefaciens)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:47
11	595	(Agrobacterium NEAR (vitis or tumefaciens)) and grape	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:46
12	288	Agrobacterium NEAR (vitis or tumefaciens).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:47
13	33	(Agrobacterium NEAR (vitis or tumefaciens).clm.) and grape	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:49
14	120	(Agrobacterium NEAR (vitis or tumefaciens).clm.) and (host ADJ cell)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/11/13 15:54
23	12	(US-5907085-\$ or US-6558953-\$ or US-6638720-\$ or US-5459252-\$ or US-5648477-\$ or US-5668298-\$ or US-6197948-\$).did. or (US-20030198942-\$).did. or (WO-9853055-\$ or WO-9722700-\$ or WO-9955880-\$).did. or (WO-200105957-\$).did.	USPAT; US-PGPUB; EPO; DERWENT	2003/11/13 16:59

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#5 Search #4 AND coat

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#1 Search gravevine leafroll virus

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1: Arch Virol. 1997;142(6):1101-16.

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The coat protein gene of grapevine leafroll associated closterovirus-3: cloning, nucleotide sequencing and expression in transgenic plants.

Ling KS, Zhu HY, Alvizo H, Hu JS, Drong RF, Slightom JL, Gonsalves D.

Department of Plant Pathology, Cornell University, New York State Agricultural Experiment Station, Geneva, USA.

A lambda ZAP II cDNA library was constructed by cloning cDNA prepared from a high molecular weight double-stranded RNA (dsRNA, ca. 18 kb) isolated from grapevine leafroll associated closterovirus-3 (GLRaV-3) infected tissues. This cDNA library was immuno-screened with GLRaV-3 coat protein specific polyclonal and monoclonal antibodies and three immuno-positive clones were identified. Analysis of nucleotide sequences from these clones revealed an open reading frame (ORF) which was truncated at the 3' end; the remainder of this ORF was obtained by sequencing a fourth clone that overlapped with one of the immunopositive clones. A total of 2028 bp was sequenced. The putative GLRaV-3 coat protein ORF, 939 bp, encodes a protein (referred to as p35) with a calculated M(r) of 34866. Multiple alignment of the p35 amino acid sequence with coat protein sequences from other closteroviruses revealed that the consensus amino acid residues (R and D) of filamentous plant viruses are preserved in the expected locations. The GLRaV-3 coat protein gene was then engineered for sense and antisense expression in transgenic plants. Transgenic Nicotiana benthamiana plants that contain the sense GLRaV-3 coat protein gene produced a 35 kDa protein that reacted with GLRaV-3 antibody in Western blot.

PMID: 9229001 [PubMed - indexed for MEDLINE]

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